

NO. 3 ESS  
 OPERATIONAL TESTING  
 SUPERIMPOSED RINGING CIRCUIT  
 (SD-3H406-01)

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1. GENERAL INFORMATION

1.1 Description

This section provides instructions for testing the system's ability to 1) ring four and eight party lines, and 2) complete revertive calls between two parties on the same party line when the system is equipped for superimposed ringing.

1.2 Sequence

Before this section may be performed, the following sections must have been completed:

<u>Section</u>	<u>Title</u>
525	System Verification Ringing and Tone Plant
534	System Verification Service Circuits
533	System Verification Junctor Circuits

1.3 References

For reference refer to the following:

SD-3H406	- Superimposed Ringing Circuit
CD-3H406	

2. RECORDS AND REQUIREMENTS

2.1 Records: The results of the test of this section shall be regarded on forms SD-97-1313 and SD-97-1315. For detailed information on filling out test records see Section 6B, Handbook 3.

2.2 Requirements: The tests in this section are based on the No. 3 ESS Performance Requirements BSP 820-650-180.

3. TEST EQUIPMENT

3.1 Test Phones

It will be necessary to have phones wired for all parties of two, four, and eight party service, whenever test lines for that service are provided in the office. A maximum of eight subscriber sets are needed, 500C/D, 1500D or 2500D.

3.2 Test Sets

No other test sets are required to perform these tests.

4. TEST PROCEDURE

4.1 General

The test consists of using the test phones to make calls on two, four, and eight party lines when they exist in an office and the office is equipped for superimposed ringing.

4.2 Test Operation

4.21 Remove all but the first member of the superimposed ringing circuit group from service with a

RMV:SVC(a,b) ,LKO!

message.

where: a = trunk group number  
 b = member number

4.22 Follow the procedures outlined in paragraphs 4.23 and 4.24 until all tests pass. Then remove the first member and restore the next member to perform the test procedure once again on this member. Continue this procedure until all members of the group have been tested. After all members have been successfully tested, restore to service all circuits removed during this test. The restore message is:

RST:SVC(a,b)!

4.23 Phones must be connected to test lines for the following types of phones when they are equipped in any office:

- a. Both parties of a two-party line.
- b. All parties of a four-party line.
- c. All parties of an eight-party line.

4.24 The installer must go to the office records and find test lines for the types specified in paragraph 4.23 and the directory numbers of each party. Perform the tests as specified in Table A.

TABLE A

STEP	ACTION	RESULT
1	Connect the proper phones to the test lines at the CDF for two, four, and eight party lines.	
2	Dial the directory number of a party using another phone on the same party line. See Table B for combinations to be used.  When dialing a 4 or 8 party line from a party on the same line, you must:  (a) Dial Directory Number called party.  (b) Wait for second dial tone.  (c) Dial calling party's identification digit as follows - (2 for party 1, 3 for party 2, 4 for party 3, etc.)  (d) Hang up.	Busy tone returned; hang up calling party. Both phones (calling and called) will ring.
3	Take both handsets off-hook.	Verify a talking path exists between the two parties.
4	Replace both test phones on-hook.	Talking path is torn down.
5	Continue this procedure till all possible combinations shown in Table B have been tested.	

TABLE B

## COMBINATIONS WHICH MUST BE TESTED

Two-Party Line

Dial Tip Party from Ring Party  
Dial Ring Party from Tip Party

Four-Party Line

Dial Party 1 from Parties 2, 3, and 4  
Dial Party 2 from Parties 3 and 4  
Dial Party 3 from Party 4  
Dial Party 4 from Party 1

Eight-Party Line

Dial Party 1 from Parties 2,3,4,5,6,7, & 8  
Dial Party 2 from Parties 3,4,5,6,7, & 8  
Dial Party 3 from Parties 4,5,6,7, & 8  
Dial Party 4 from Parties 5,6,7, & 8  
Dial Party 5 from Parties 6, 7, & 8  
Dial Party 6 from Parties 7 & 8  
Dial Party 7 from Party 8  
Dial Party 8 from Party 1